



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	15-145-21,580-00-00		
Company	Murfin Drilling Company, Inc.		
Well	Bowman A #1-31		
Field	Bow		
County	Pawnee	State	Kansas
Location	W/2 SE SE SE 330' FSL & 510' FEL		Other Services CNL / CDL DIL / BHCS
Sec: 31	Twp: 22S	Rge: 15W	Elevation K.B. 2015 D.F. 2010 G.L. 2010

Permanent Datum	Ground Level	Elevation 2010
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	3/1/2009	
Run Number	Two	
Depth Driller	4057	
Depth Logger	4056	
Bottom Logged Interval	4055	
Top Log Interval	1800	
Casing Driller	8.625 @ 630	
Casing Logger	630	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	22.500	
Density / Viscosity	8.9 70	
pH / Fluid Loss	10.5 8.0	
Source of Sample	Flowline	
Rm @ Meas. Temp	.33 @ 56	
Rmf @ Meas. Temp	.25 @ 56	
Rmc @ Meas. Temp	.45 @ 56	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.16 @ 116	
Operating Rig Time	5 Hours	
Max Rec. Temp. F	116	
Equipment Number	17	
Location	Hays	
Recorded By	T. Martin	
Witnessed By	Bob Stolzie	

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

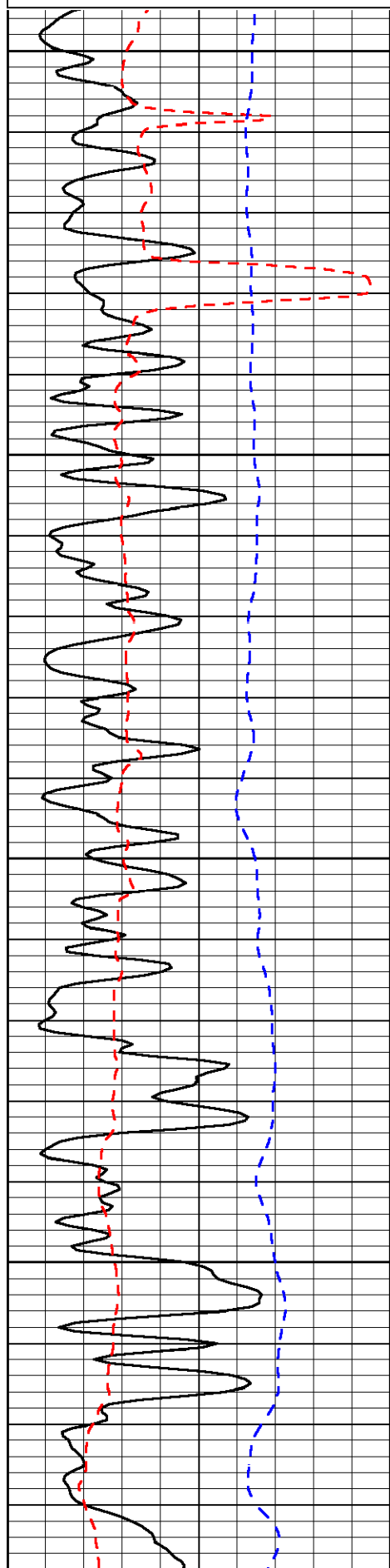
Thank you for using Log-Tech, Inc.
(785) 625-3858

Larned, 5 S on 19 to G Rd, 5 E, N into

0	Gamma Ray	150
6	Micro Log Caliper (in)	16
-200	SP (MV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)

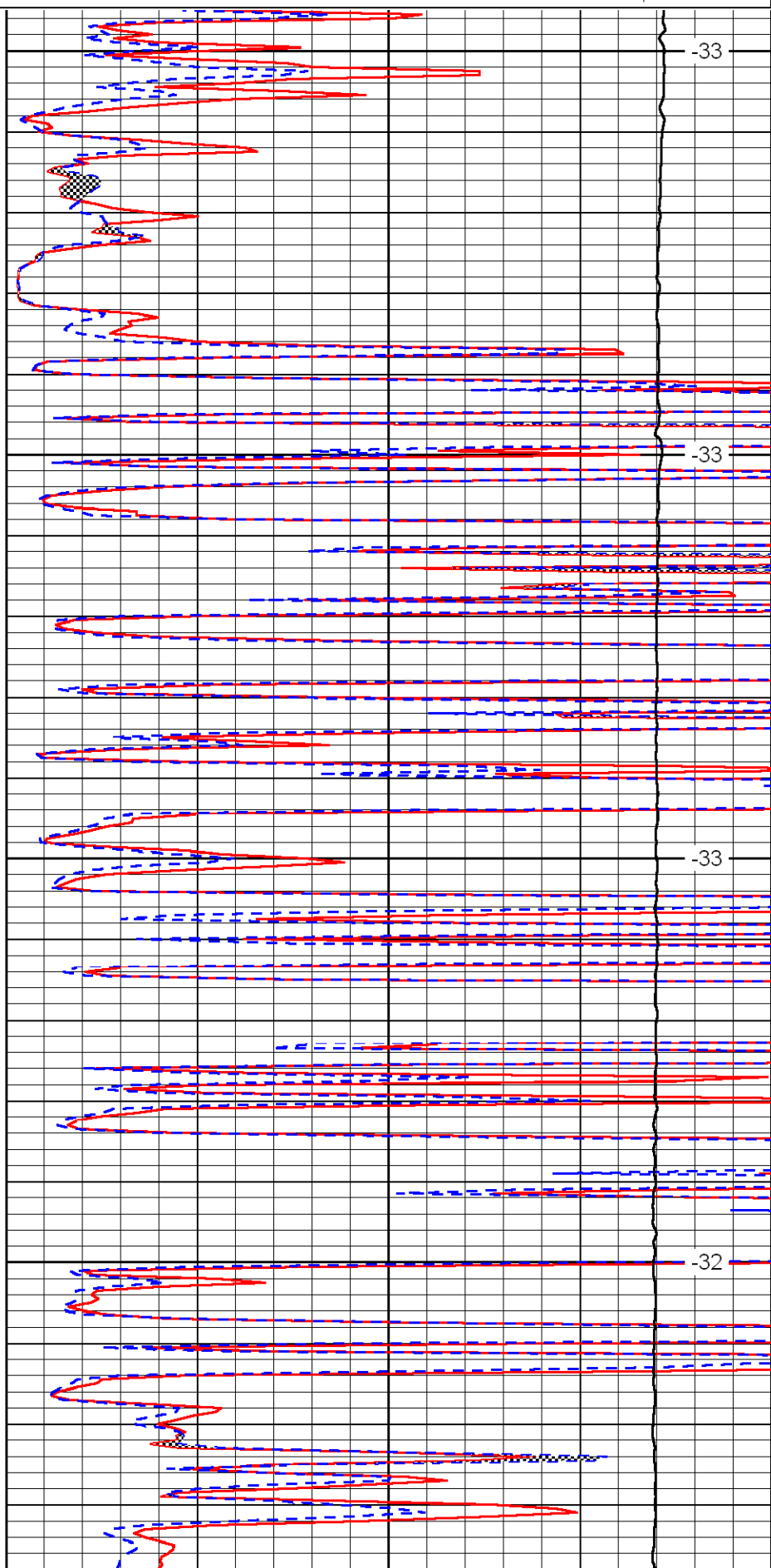


1800

1850

1900

1950

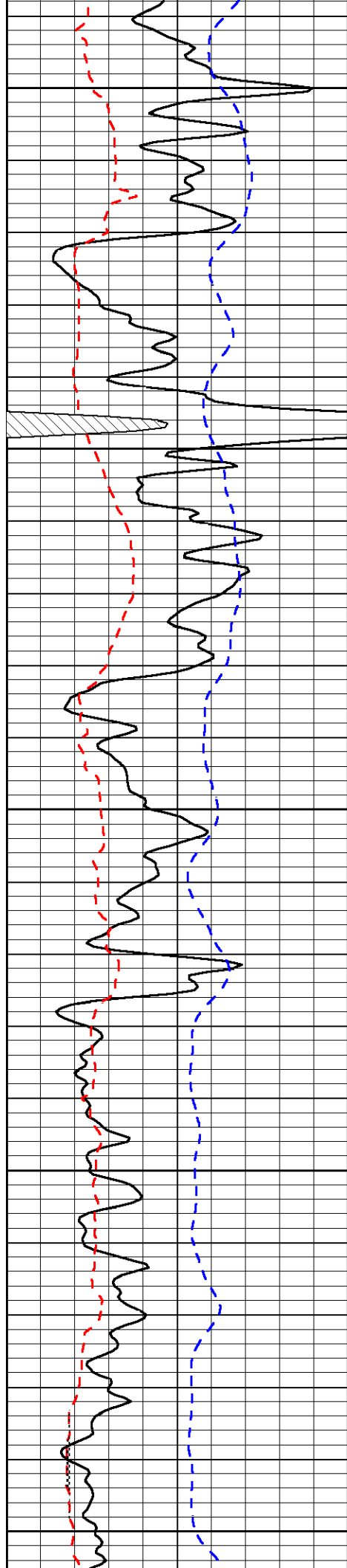


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-33

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-32



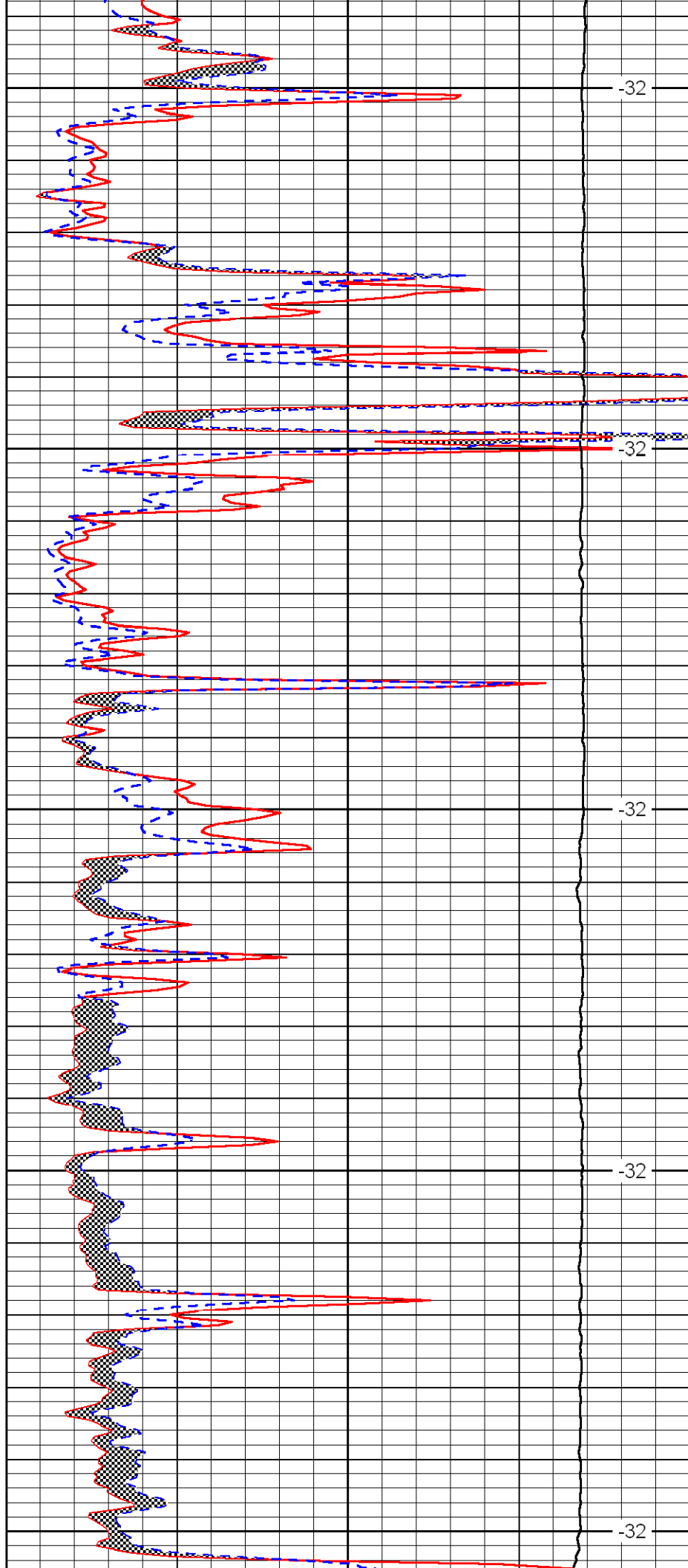
2000

2050

2100

2150

2200



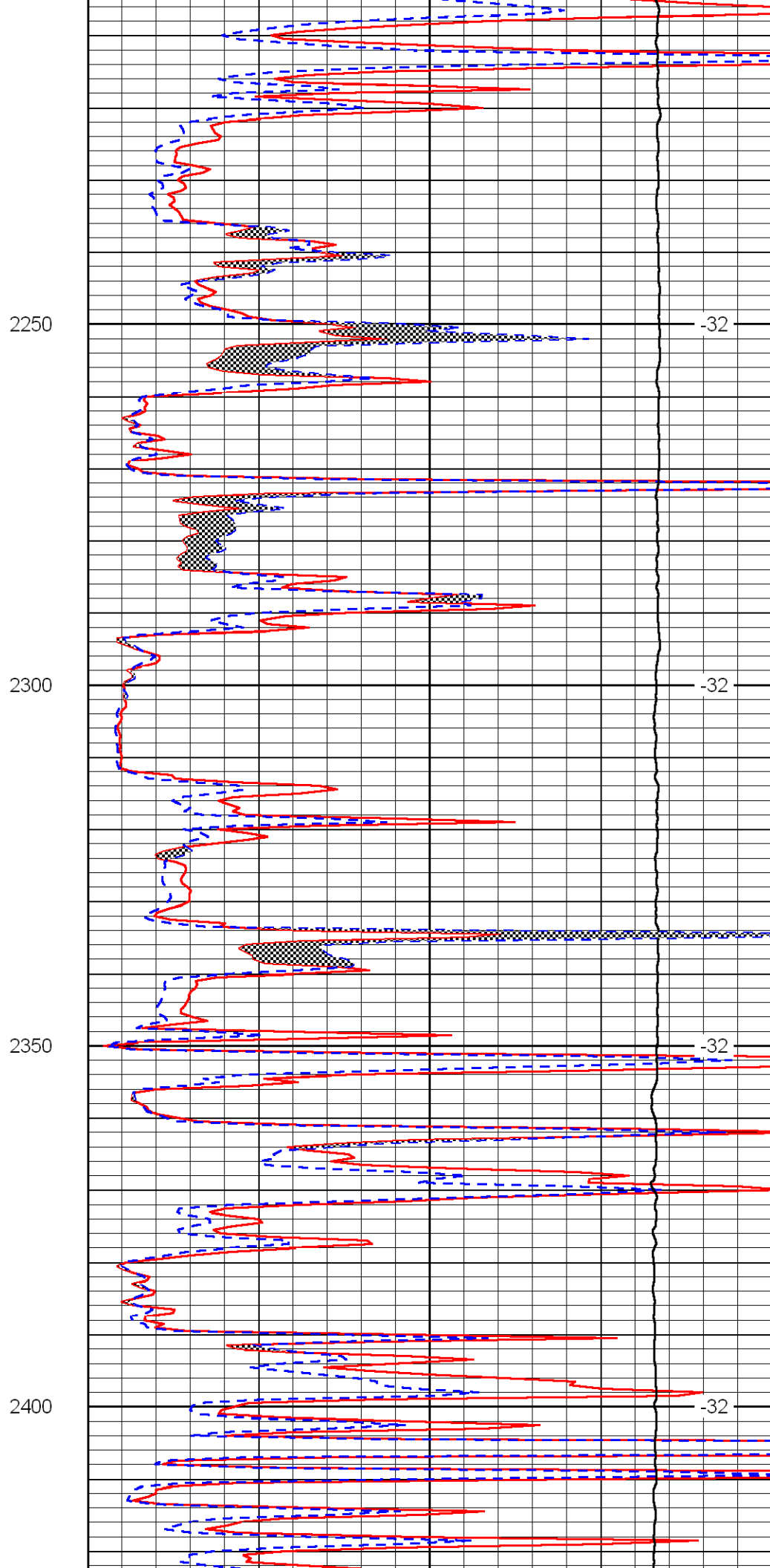
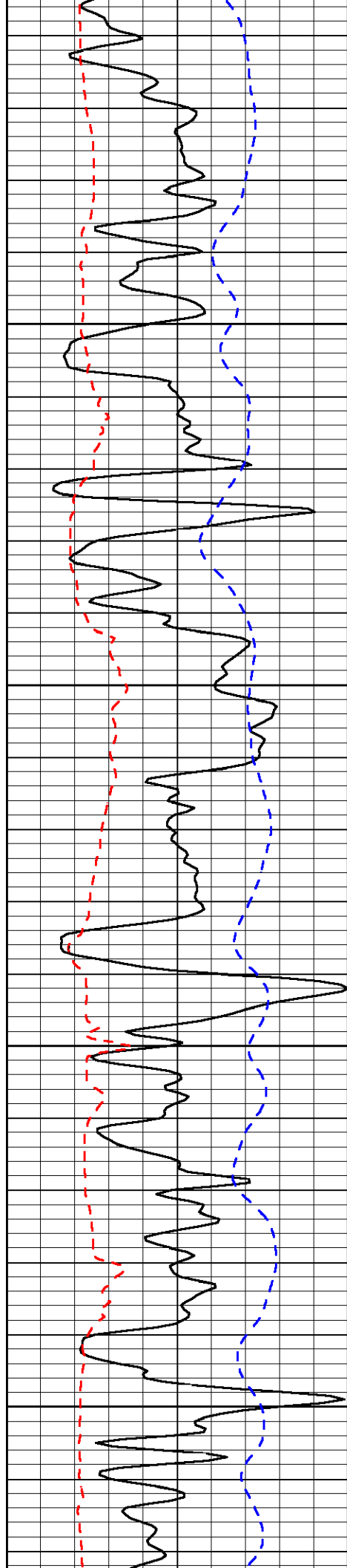
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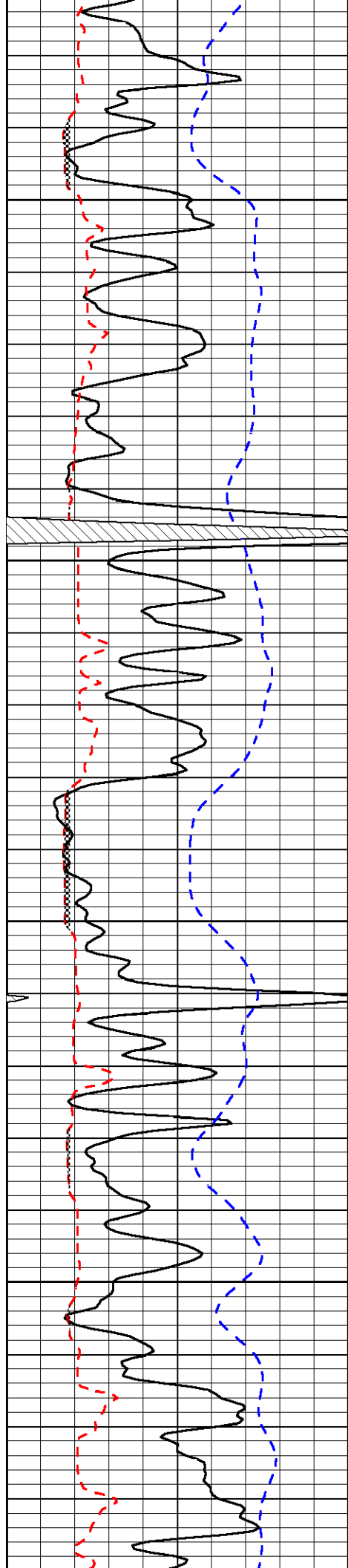
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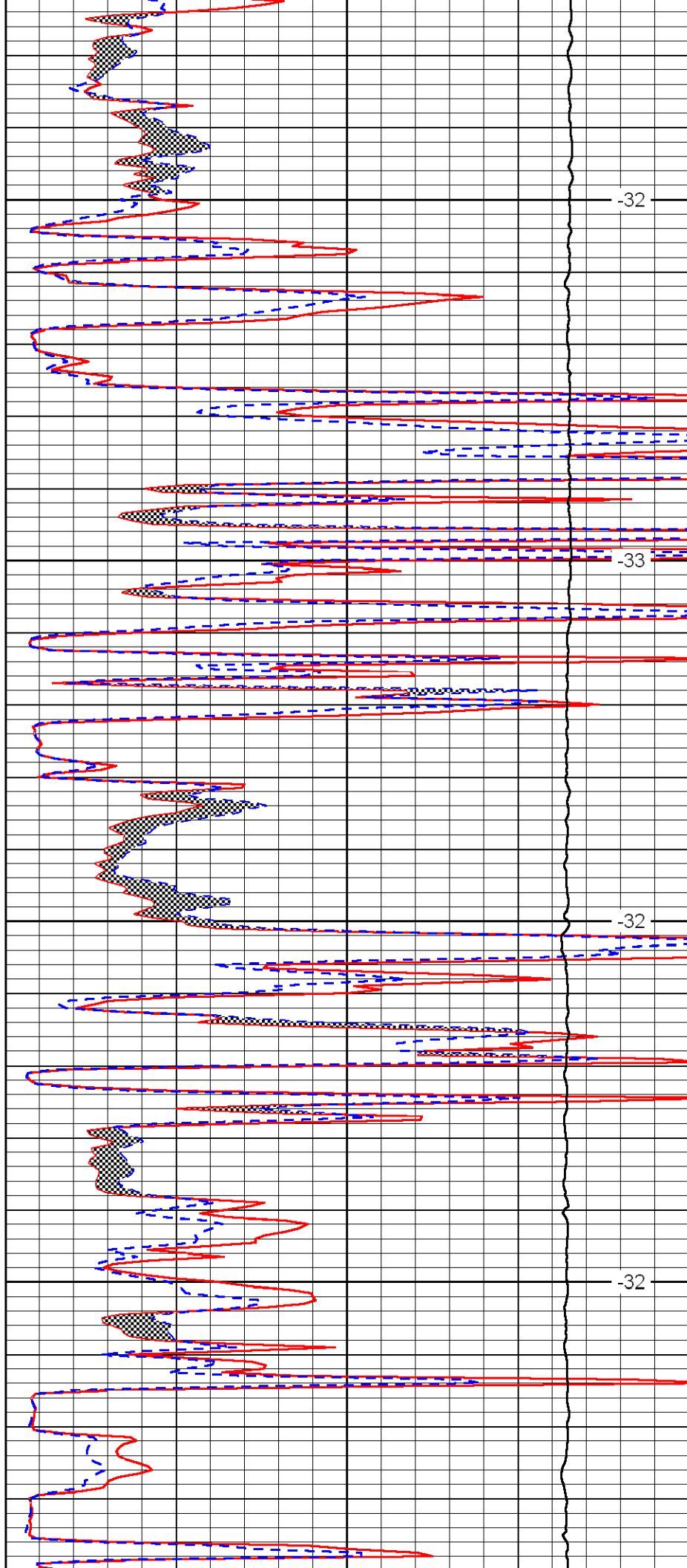


2450

2500

2550

2600

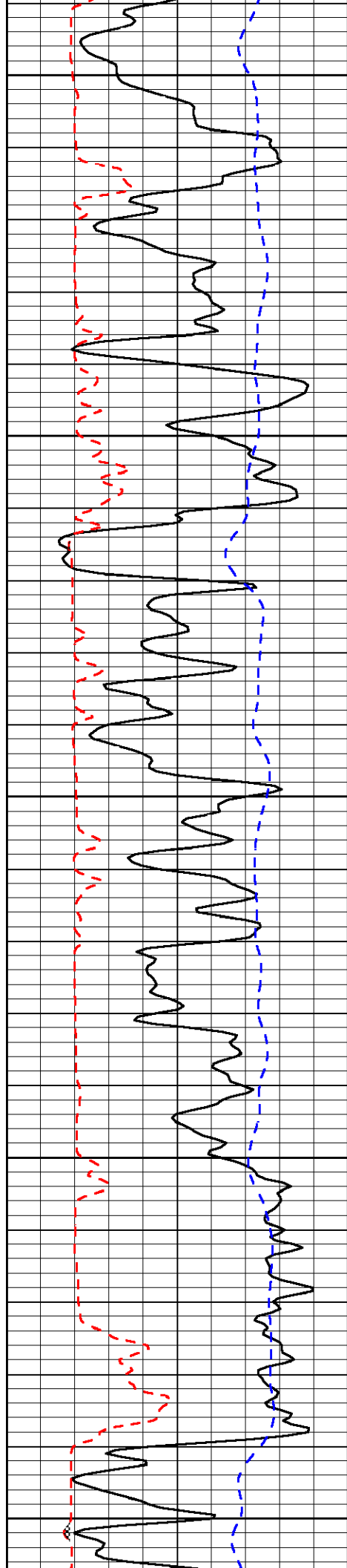


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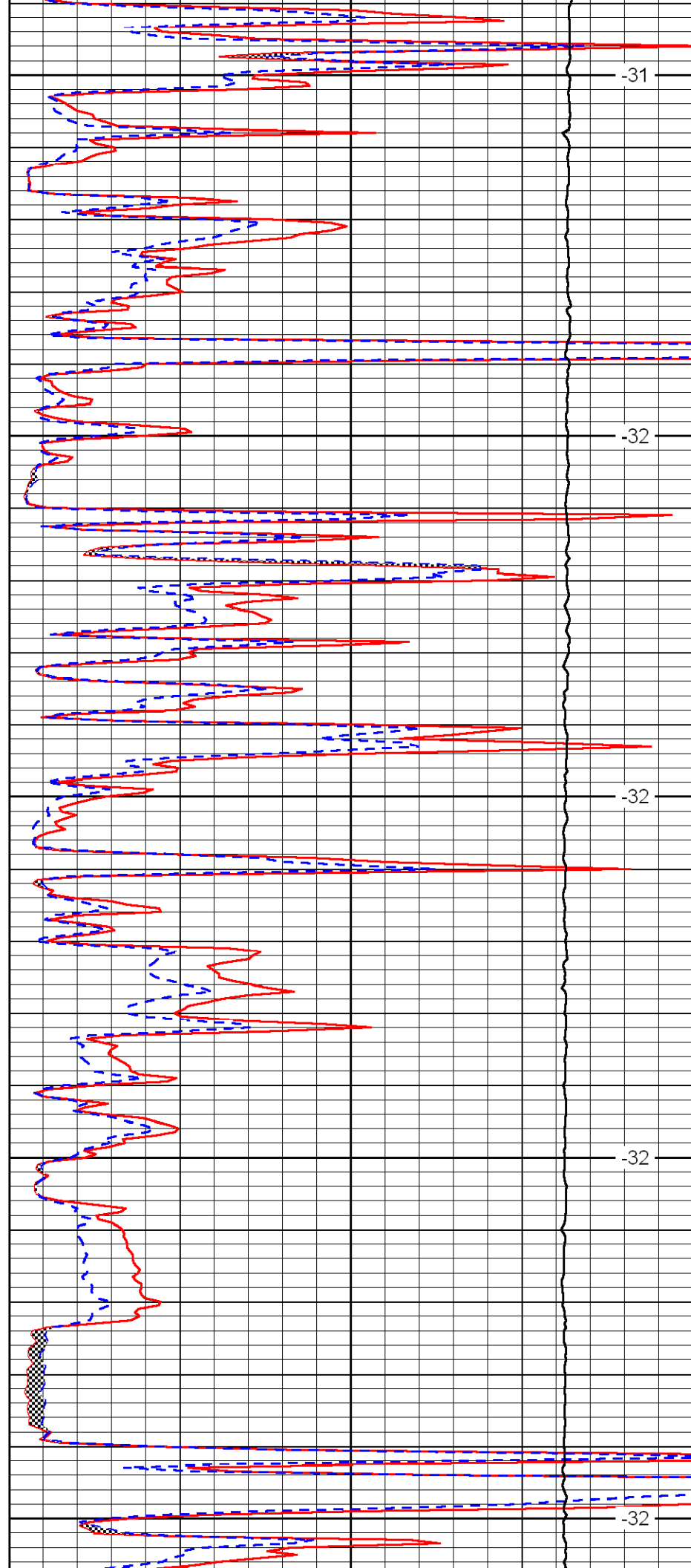
2650

2700

2750

2800

2850



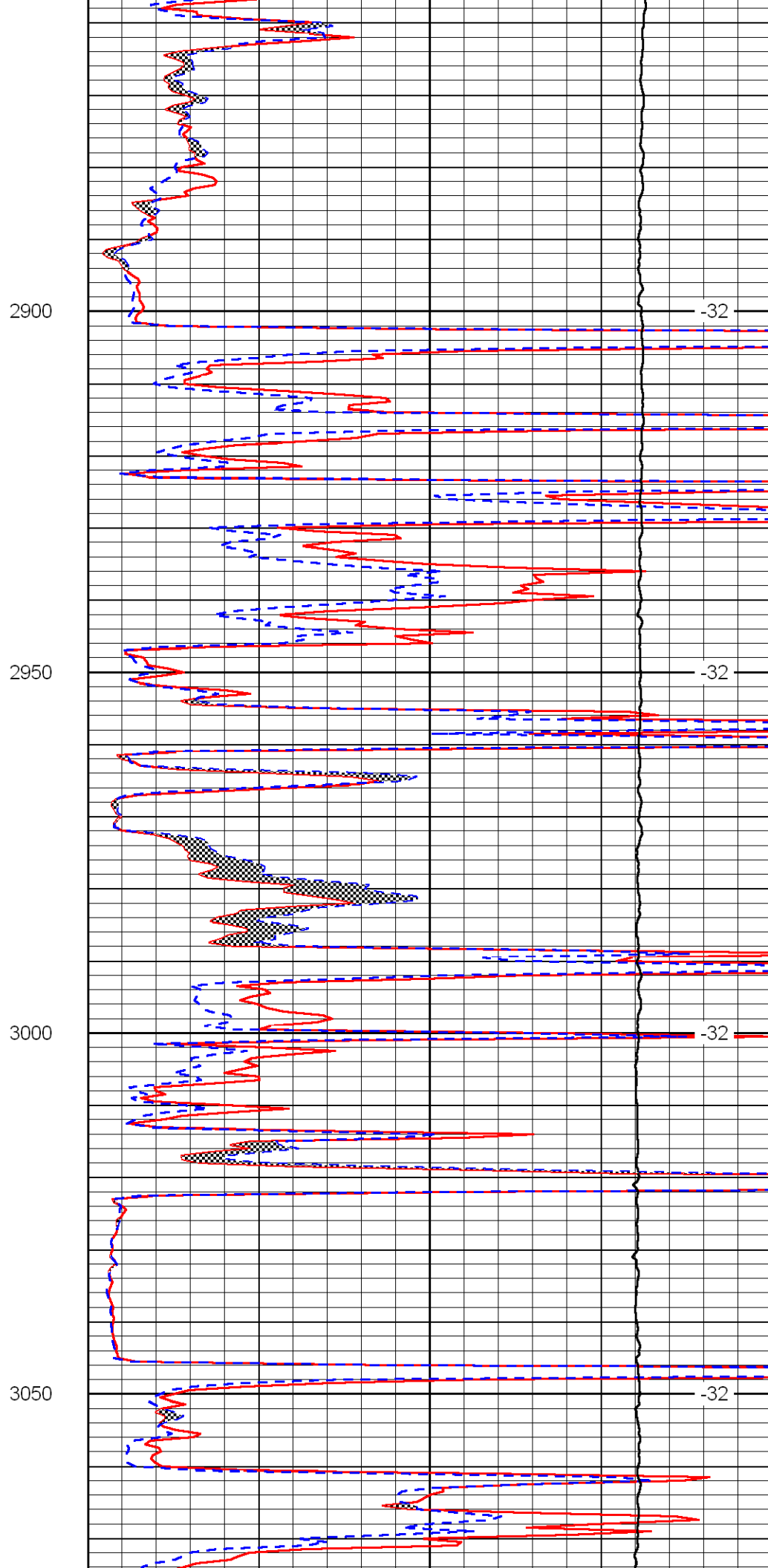
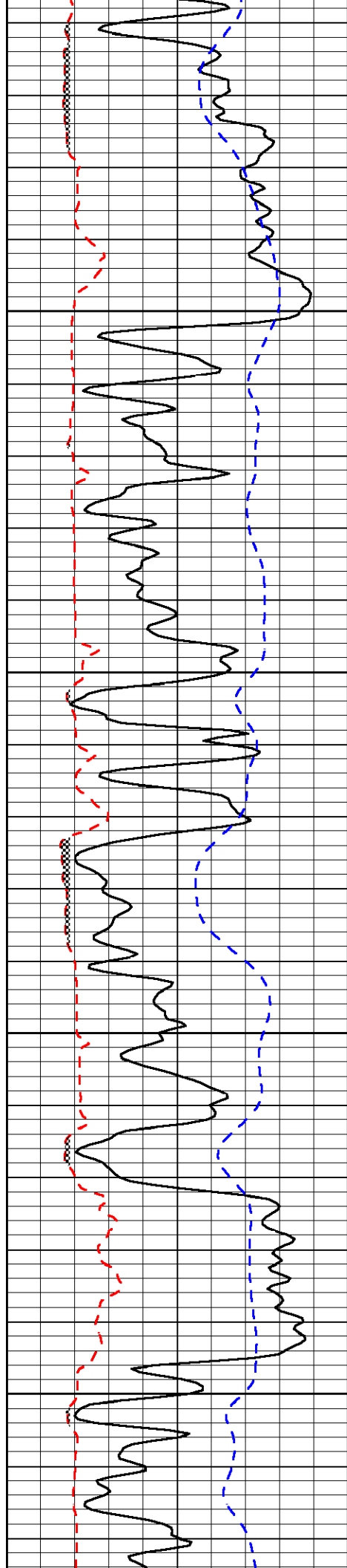
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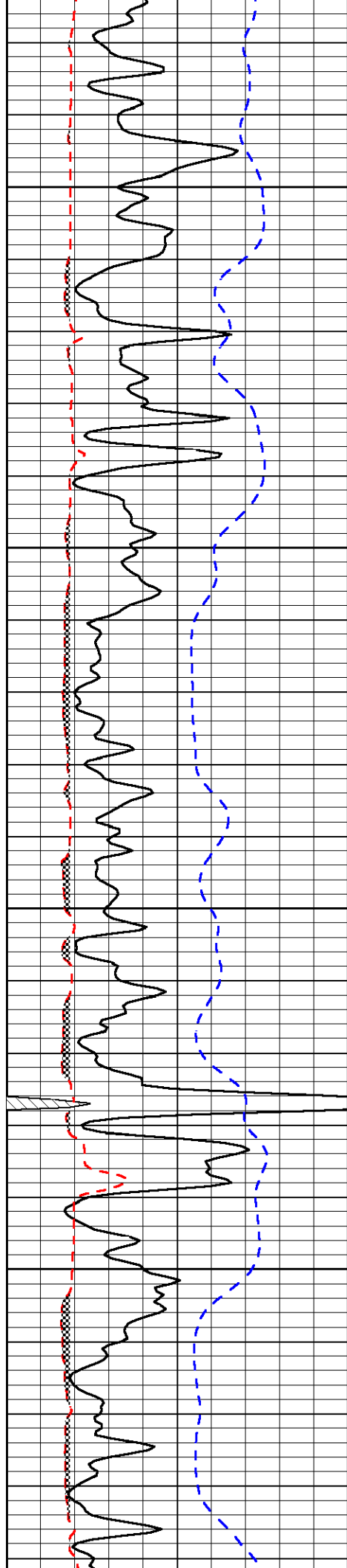
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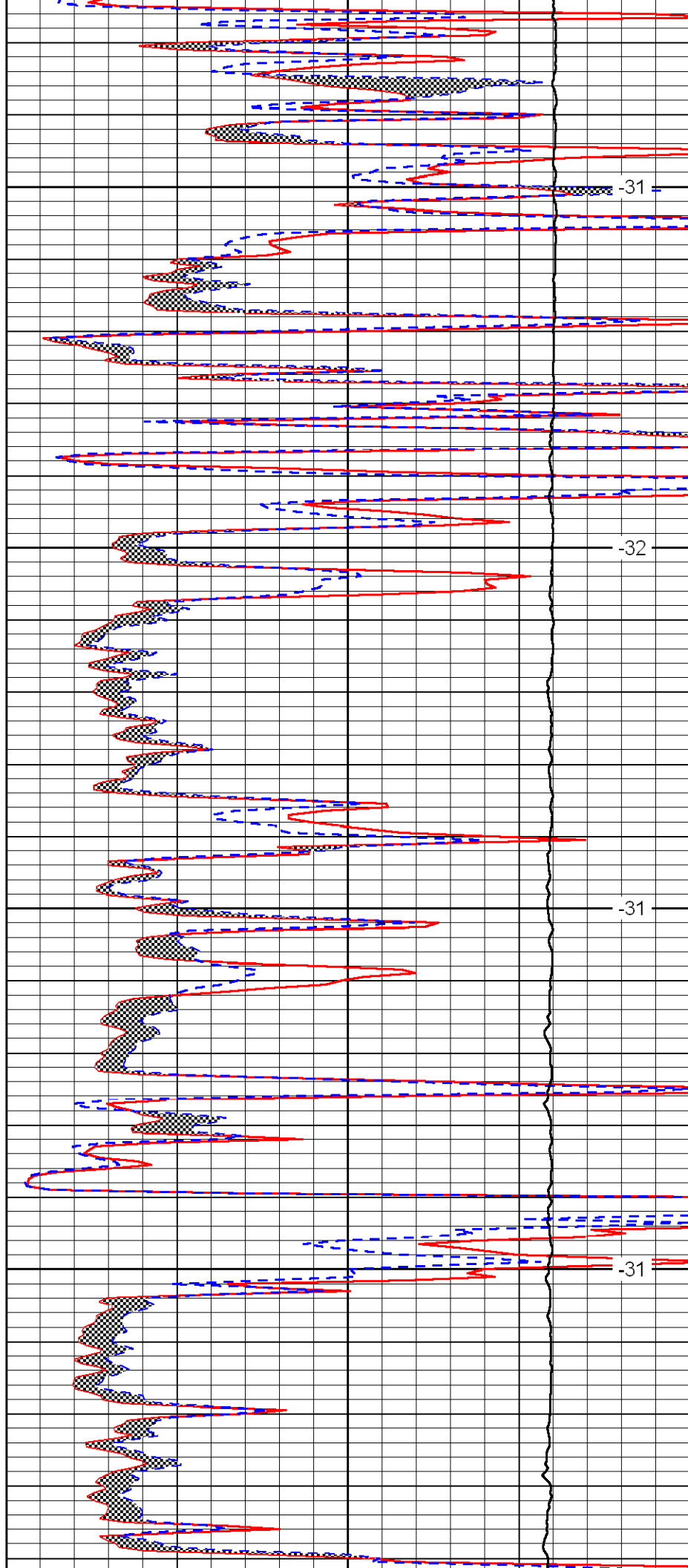


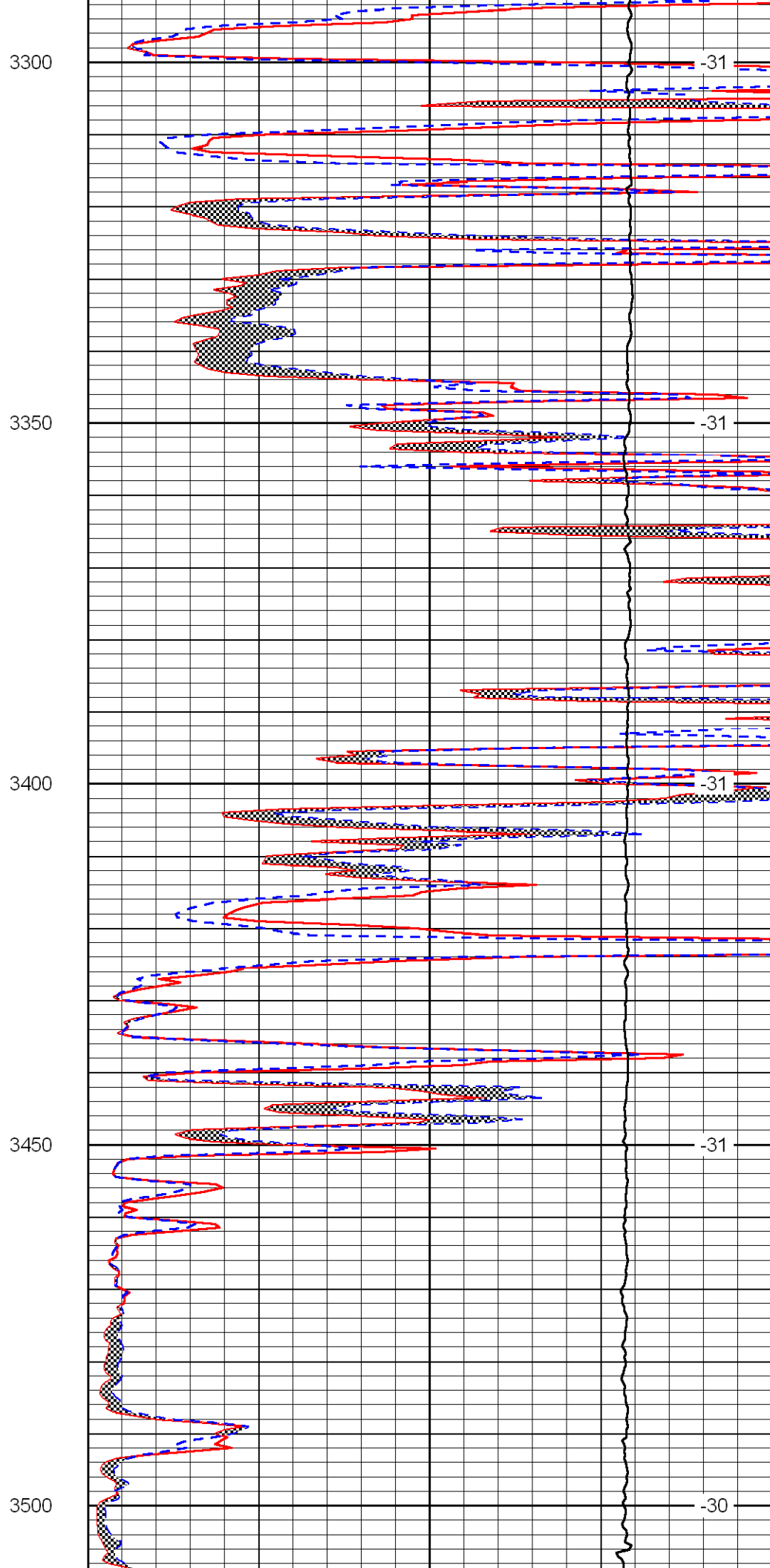
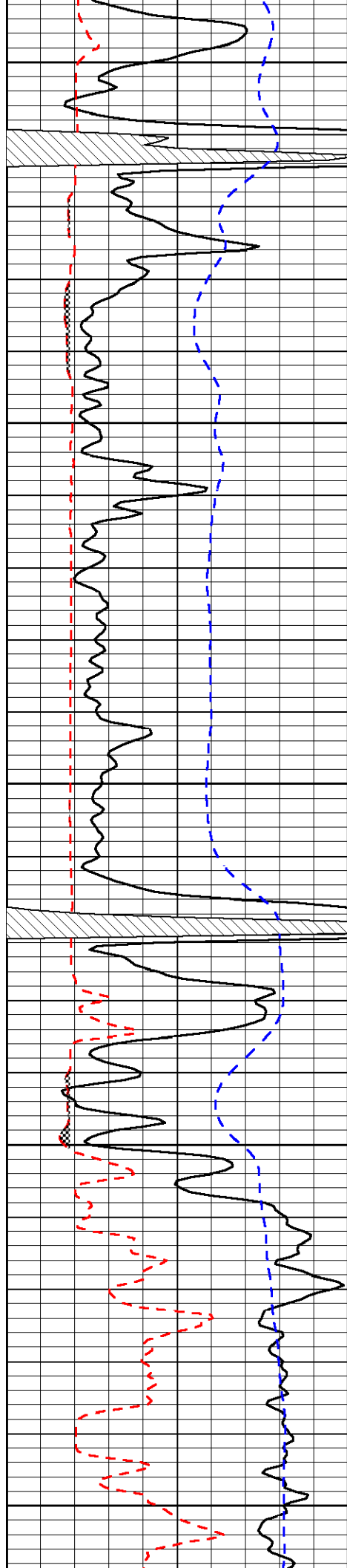
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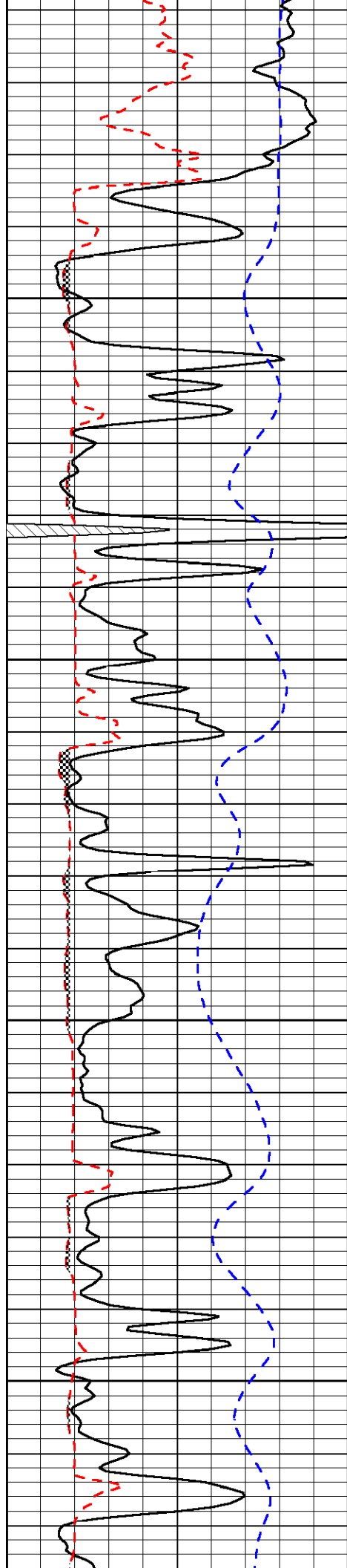
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3200

3250





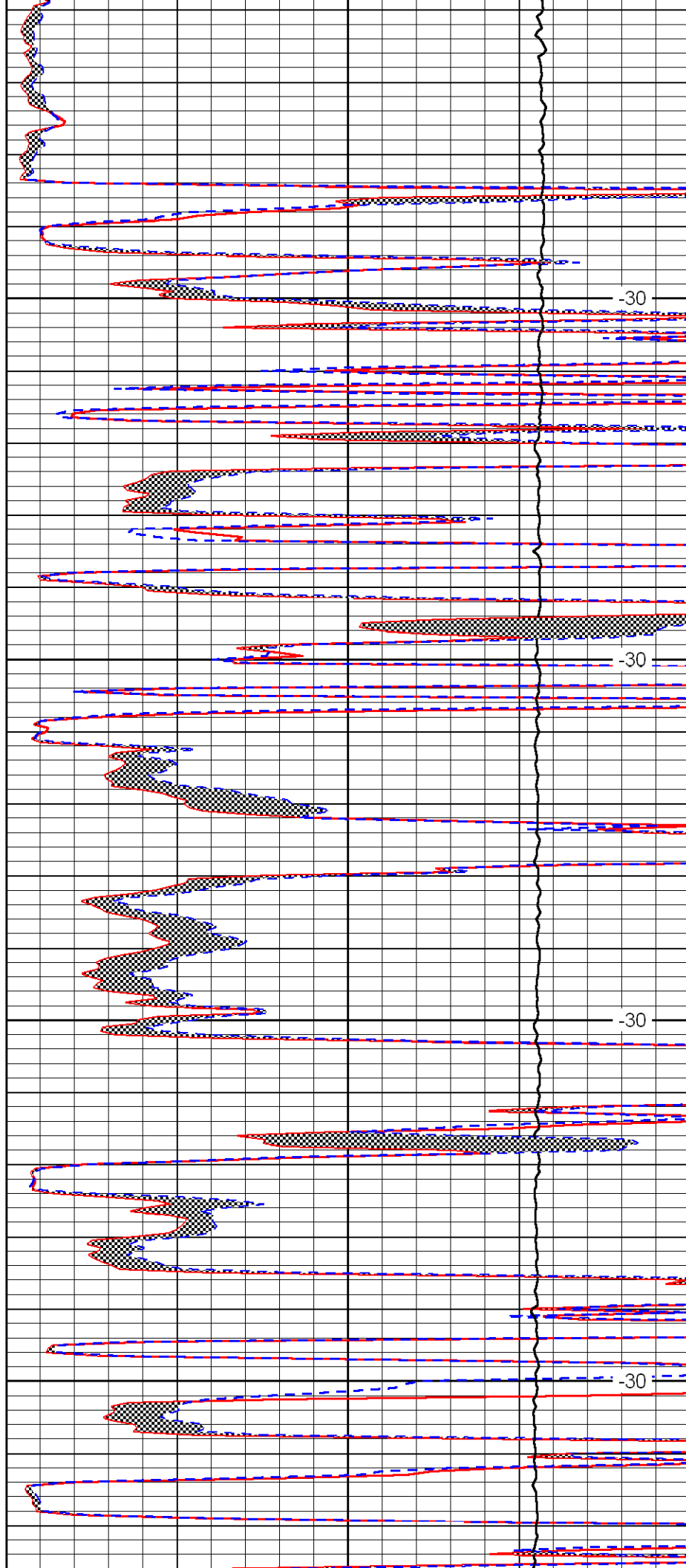


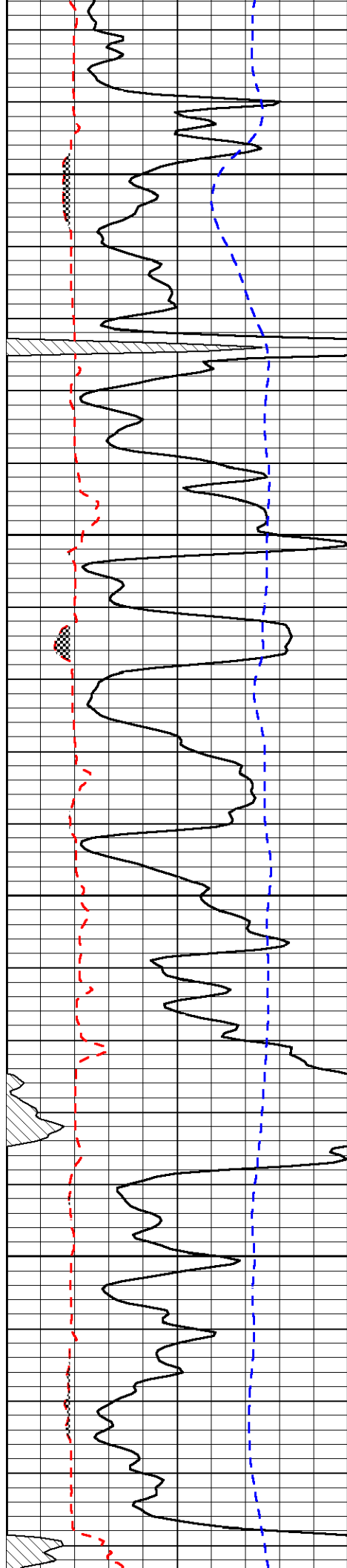
3550

3600

3650

3700



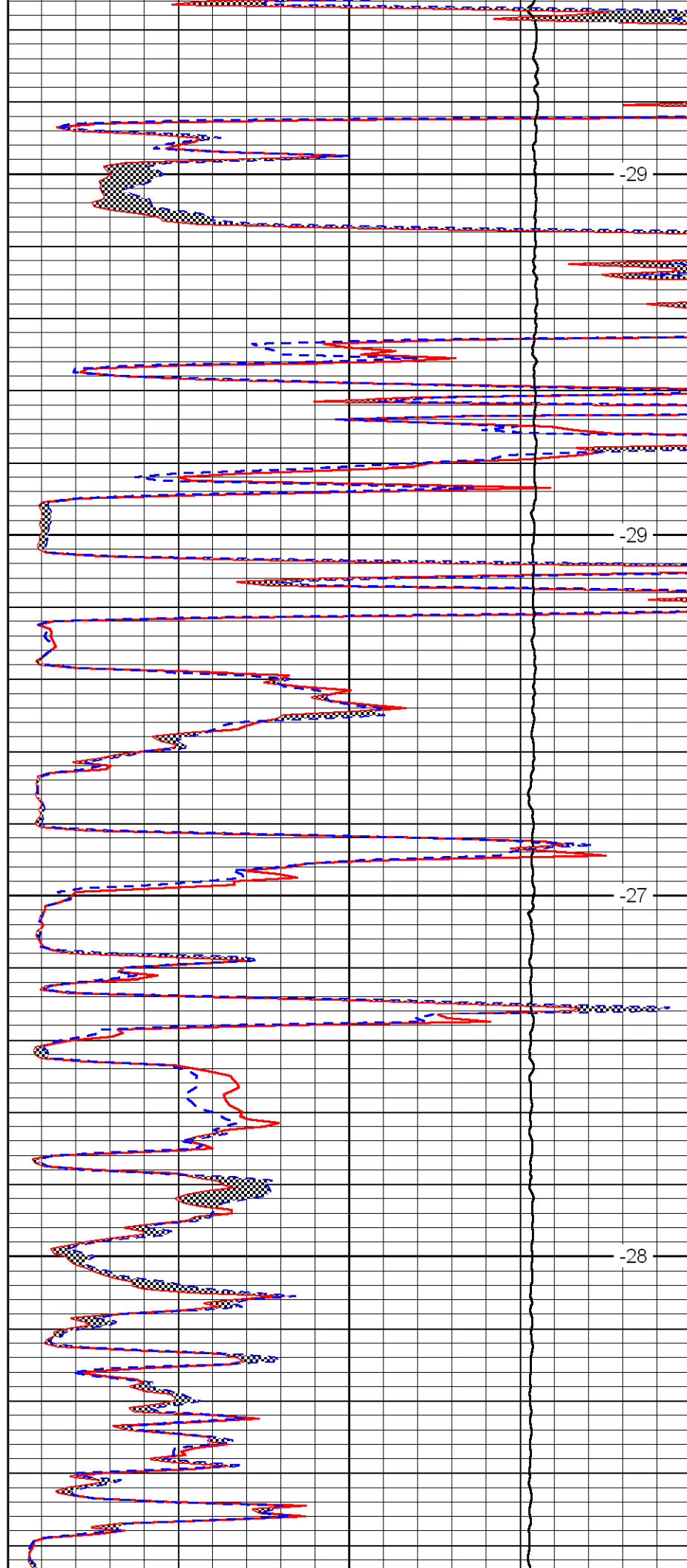


3750

3800

3850

3900

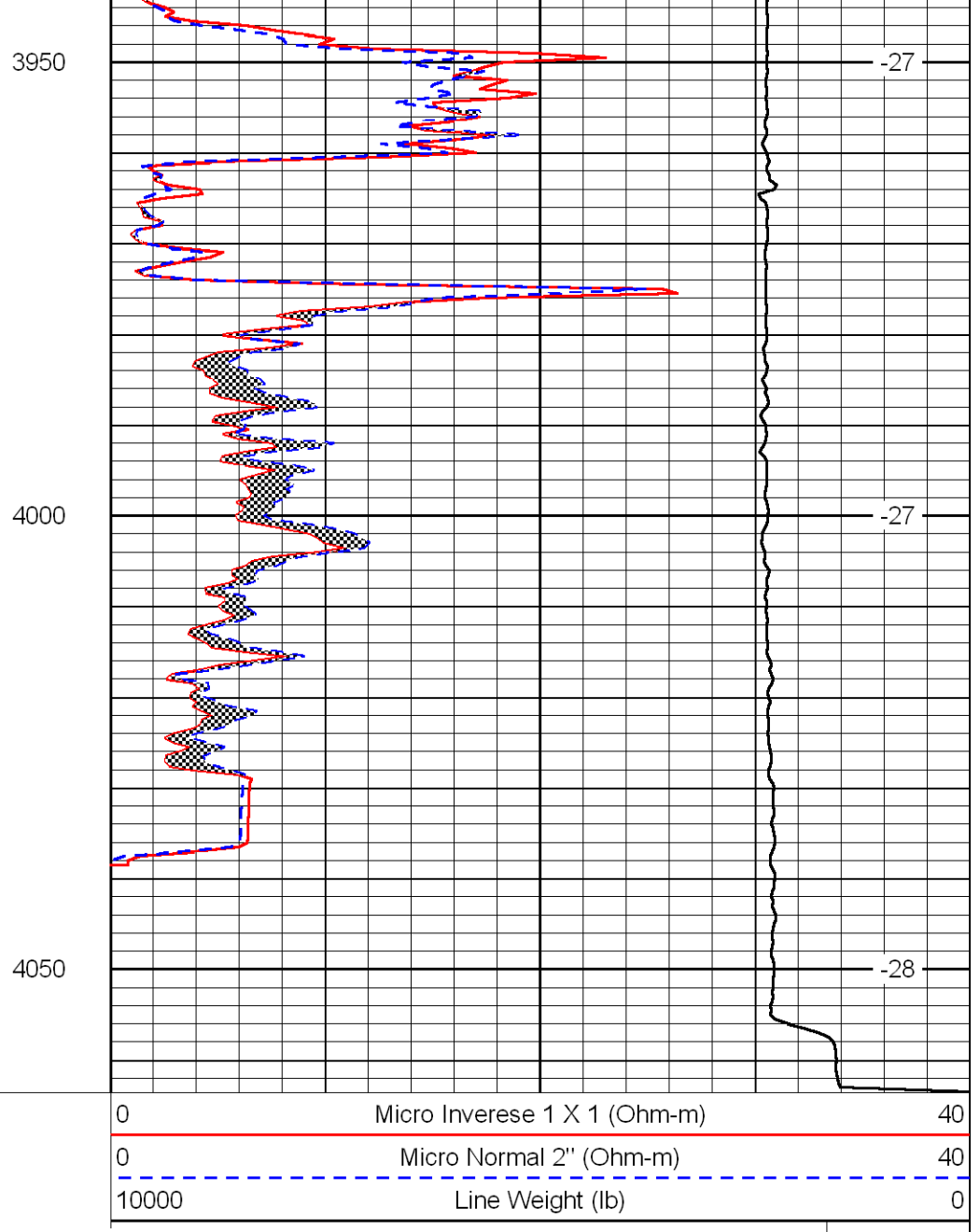
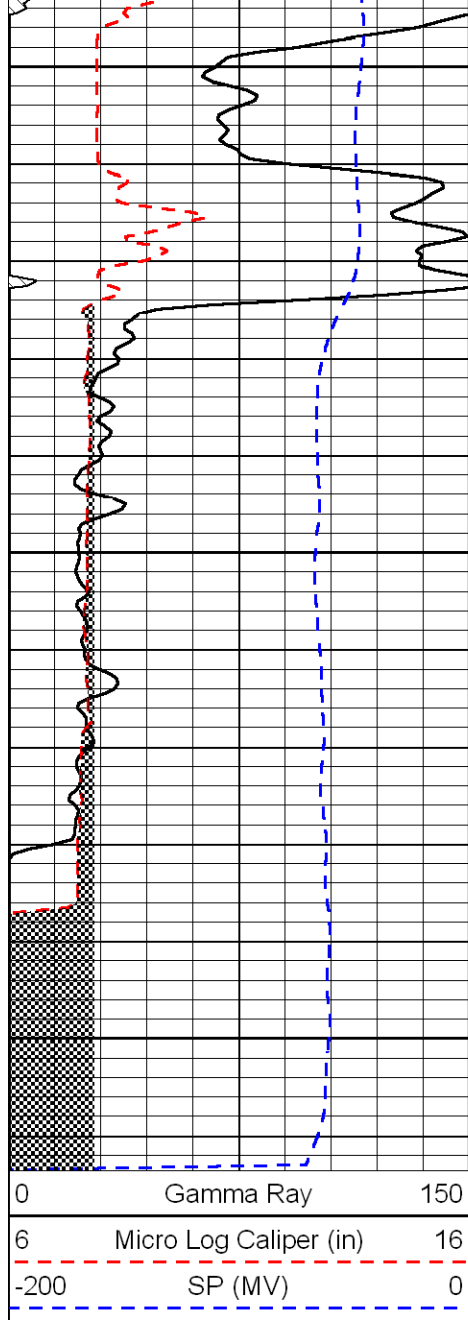


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-27

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LSPD
(ft/min)